

## **CLAIMS**

1. A method of monitoring a microseismic event, comprising: detecting said event to produce a first signal dependent on said event, the first signal including noise at a frequency of  $f$  Hz; taking a first sample of said first signal; taking a second sample of said first signal, the second sample occurring  $n/f$  seconds after the first sample, where  $n$  is an integer; and subtracting the first and second samples from each other to produce a further signal dependent on said event in which said noise has been at least partly compensated for.
2. A method according to claim 1, wherein  $n = 1$ .
3. A method according to claim 1, wherein  $f = 50$ .
4. A method according to claim 1, wherein the microseismic event is one occurring in a fluid producing well.